

#4  
09/6/4415  
Rec'd PCT/PTO 05 FEB 2001

GIVAR5.001APC

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Givargizov et al. )  
App. No. : 09/674,415 )  
Filed : October 30, 2000 )  
For : STABILIZED AND CONTROLLED )  
ELECTRON SOURCES, MATRIX )  
SYSTEMS OF THE ELECTRON )  
SOURCES, AND METHOD FOR )  
PRODUCTION THEREOF )  
Examiner : Unknown

**ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION**  
**AND**  
**REVOCATION AND POWER OF ATTORNEY**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventors to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventors to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 620 Newport Center Drive, Sixteenth Floor, Newport Beach, California 92660, Telephone

X

2

App. No. : 09/674,415  
Filed : October 30, 2000

(949) 760-0404, **Customer No. 20,995**, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use **Customer No. 20,995** for all communications.

Crystals and Technologies, Ltd.

Dated: January 21, 2001

By: 

Title: Director

Address: Garibaldi Str. 15-1  
Moscow 117335, Russia

W:\DOCS\RPC\RPC-1101.DOC  
011801



## PATENT

ASSIGNMENT

WHEREAS, WE (1) Evgeny Invievich Givargizov a Russian citizen, residing at obrucheva 20, kv. 12, Moscow 117421, RUSSIA, (2) Mikhail Evgenievich Givargizov, a Russian citizen, residing at Vargi, 1-115, Moscow 117133, RUSSIA, (3) Vladimir Ilich Ershov, a Russian citizen, residing at ul Profsojuznaya, 30-2-16, Moscow, 117335, Russia, (4) Nina Ivanovna Manshina, a Russian citizen, residing at ul Polevaya, 19-56, Moskovskaya obl., Fryazino, 141120, RUSSIA, hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in STABILIZED AND CONTROLLED ELECTRON SOURCES, MATRIX SYSTEMS OF THE ELECTRON SOURCES, AND METHOD FOR PRODUCTION THEREOF, the specification of which:

- (a) o is attached hereto; or
- (b) v was filed on October 20, 2000 as Application No. 09/674,415;
- (c) v was described and claimed in PCT International Application No. PCT/RU99/00149 filed on April 30, 1999 and as amended under PCT Article 19 on \_\_\_\_\_ (if any) and/or under PCT Article 34 on \_\_\_\_\_ (if any).

AND WHEREAS, CRYSTALS AND TECHNOLOGIES, LTD., with its principal place of business at \_\_\_\_\_, Moscow, RUSSIA (hereinafter referred to as Assignee) desires to acquire the entire right, title, and interest in and to the said improvements with respect to the United States of America, its territories and possessions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to and under said improvements, and any Patent Applications in the United States of America and all divisions, renewals and continuations thereof, and all Patents of the United States of America which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.

COPY -

DO NOT  
RECORD

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereto affixed its signature.

This 21 day of January, 2001

Subargizov  
Signature of Evgeny Lvovich Givargizov

This 21 day of January, 2001

Mikhail  
Signature of Mikhail Evgenievich Givargizov

This 21 day of January, 2001

Ershov  
Signature of Vladimir Illich Ershov

This 21 day of January, 2001

Manshina  
Signature of Nina Ivanovna Manshina